## WHAT IS CLAIMED IS:

- 1. An inspired air temperature measurement device that is a device for measuring inspired air temperature inside a respiratory circuit having an air flow path, comprising a sensor to detect the temperature of inspired air inside the inspired air flow path, and a holder to hold the sensor in the inspired air flow path, the holder having a heat transfer suppressing portion that suppresses temperature transfer from the exterior of the inspired air flow path to the sensor.
- 2. The inspired air temperature measurement device of Claim 1, wherein the holder is installed in a heating environment.
- 3. The inspired air temperature measurement device of Claim 2, wherein the heating environment is the inside of an incubator.
- 4. The inspired air temperature measurement device of Claim 1, wherein the holder has a holder main body that is affixed to the respiratory circuit, and an extended protrusion that is affixed to the holder main body, the extended protrusion extending from the holder main body towards the inside of the respirator flow path, the sensor being affixed to the extended protrusion and installed inside the inspired air flow path, and the heat transfer suppressing portion being formed on the extended protrusion.
- 5. The inspired air temperature measurement device of Claim 4, wherein the heat transfer suppressing portion is a curved portion that is a portion of the extended protrusion.
- 6. The inspired air temperature measurement device of Claim 4 wherein the heat transfer suppressing portion is a spiral portion that is a portion of the extended protrusion.
- 7. The inspired air temperature measurement device of Claim 1, wherein the heat transfer suppressing portion is a photo-reflective coating that is formed on the surface of the holder.
- 8. The inspired air temperature measurement device of Claim 1, wherein the heat transfer suppressing portion is a cover that covers at least a portion of the surface of the holder.
- 9. The inspired air temperature measurement device of Claim 8, wherein an air layer is formed between the cover and the holder.

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- 10. The inspired air temperature measurement device of Claim 9, wherein the air layer is closed with respect to the external space.
- 11. The inspired air temperature measurement device of Claim 4, wherein the heat transfer suppressing portion is constituted by fins provided on the extended protrusion.
- 12. The inspired air temperature measurement device of Claim 1, wherein the holder main body and the extended protrusion are made into one piece.

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